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PATENT APPLICATION

AF 11755

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**RESPONSE UNDER 37 C.F.R. §1.116
EXPEDITED PROCEDURE
TECHNOLOGY CENTER ART UNIT 1755**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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TC 1700

In re the Application of

Yuji SEZAI et al.

Group Art Unit: 1755

Application No.: 09/944,590

Examiner: C. Koslow

Filed: September 4, 2001

Docket No.: 110537

For: MAGNETIC CORE FOR xDSL MODEM TRANSFORMER AND ITS
COMPOSITION

REQUEST FOR RECONSIDERATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In reply to the July 21, 2003 Office Action, reconsideration of the rejection is respectfully requested in light of the following remarks.

Claims 3, 8 and 13 are rejected under 35 U.S.C. §102(e) over U.S. Patent No. 6,423,243 ("U.S. '243"); claims 5, 10 and 15 are rejected under 35 U.S.C. §102(e) over U.S. Patent No. 6,217,789 ("U.S. '789"); claims 3 and 5 are rejected under 35 U.S.C. §102(b) over JP 6-263447 ("JP '447"); claims 3, 8 and 13 are rejected under 35 U.S.C. §102(b) over JP 11-302069 ("JP '069"); and claims 5, 10 and 15 are rejected under 35 U.S.C. §102(b) over JP 10-72217 ("JP '217"). Under 35 U.S.C. §103(a), claims 3 and 5 are rejected over JP '447; claims 3-5 are rejected over JP 10-335130 ("JP '130"); claims 5, 10 and 15 are rejected over JP '217; and claims 3-5, 8-10 and 13-15 are rejected over JP '069. Applicants respectfully

traverse these rejections. Because the responses to the rejections are similar, they are addressed together.

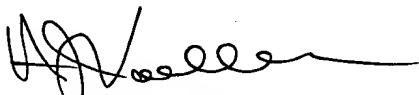
The Office Action cites each of the above references for allegedly disclosing a ferrite composition that overlaps with the instantly claimed compositions. However, none of the above references disclose a magnetic core composition for an xDSL modem transformer providing total harmonic distortion (THD) characteristics of not more than -83dB in a broad frequency band, as claimed. In particular, none of the references cited in the Office Action teach or suggest that a magnetic core composition, as recited in claims 3, 8, and 13 would have the superior THD characteristics of not more than -88dB in a broad frequency band. Moreover, none of the references teach or suggest that a magnetic core composition, as recited in claims 4, 9, and 14 would have the superior THD characteristics of not more than -86dB in a high frequency band. Finally, none of the references teach or suggest that a magnetic core composition, as recited in claims 5, 10, and 15 would have the superior THD characteristics of not more than -83dB at 5kHz over a broad temperature range of -40 to +85°C.

A magnetic core for a transformer used in an xDSL modem having a composition outside the claimed ranges does not provide the transmission of data at a high accuracy level. Applicants discovered that a magnetic core composition and a magnetic core for an xDSL modem transformer, having a main component comprised of MnO, ZnO, and Fe₂O₃ at the particular concentration as claimed, produced vastly superior characteristics not taught or suggested by the prior art. For at least the above reasons, the rejections of claims 3-5, 8-10 and 13-15 under §102 and §103 should be withdrawn. Accordingly, Applicants respectfully request reconsideration and withdrawal of the rejections.

In view of the foregoing, it is respectfully submitted that this application is in condition-for allowance. Favorable reconsideration and prompt allowance of claims 3-5, 8-10 and 13-15 are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,



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JAO:HJV/jth

Date: October 20, 2003

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